

ABSTRACT

A piezoelectric sheet, which comprises a matrix comprising a polyimide or a silicone rubber, and a cubic lead zirconate titanate single-crystal particle dispersed in the matrix, wherein (100) plane of said single-crystal particle is oriented parallel to a plane of said sheet, and said single-crystal particle penetrates the plane of said sheet from one to the other side. Conventionally, since 5 the constituent crystal particles are randomly oriented, properties of the crystal particles are obtained as the average values of the properties of the individual particles. In contrast, according to the piezoelectric sheet of the present invention, since the cubic PZT single- 10 crystal particles have been disposed so that (100) axes are oriented perpendicularly to the plane of the sheet, the PZT can have the properties inherent in the (100) planes. 15